

JPEG PACKED BLOCK DATA STRUCTURE
FOR ENHANCED IMAGE PROCESSING

ABSTRACT OF THE DISCLOSURE

5 An intermediate data format which is readily
convertible to or from JPEG compliant data streams
and to or from image data provides, in most
circumstances, accelerated encoding and decoding in
a degree sufficient to allow additional processing
without necessitating increase of processor power
even in relatively time-critical applications such
as high-speed printers and image browsers. The
format features flags which indicate if $S > 8$
10 (indicating that extra bits are required to uniquely
encode an orthogonal transform coefficient value) or
runs of zero-valued orthogonal transform
coefficients longer than sixteen are present in a
block of data. The block of data can be tested for
15 these conditions and flags set once per block or
once per image. Extensive processing can thus be
omitted if either or both of these conditions are
not present, as will generally be the case.